

FERRIC OXIDE

ICSC: 1577 (October 2004)

Anhydrous ferric oxide
 Iron (III) oxide
 Diiron trioxide
 Iron trioxide
 Ferric sesquioxide

CAS #: 1309-37-1

UN #: see Notes

EC Number: 215-168-2

	ACUTE HAZARDS	PREVENTION	FIRE FIGHTING
FIRE & EXPLOSION	Not combustible.		In case of fire in the surroundings, use appropriate extinguishing media.

	SYMPTOMS	PREVENTION	FIRST AID
Inhalation	Cough.	Avoid inhalation of dust.	Fresh air, rest.
Skin			
Eyes	Redness.	Wear safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.
Ingestion		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	CLASSIFICATION & LABELLING
Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers.	According to UN GHS Criteria Transportation UN Classification
STORAGE	
PACKAGING	



Prepared by an international group of experts on behalf of ILO and WHO, with the financial assistance of the European Commission.
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FERRIC OXIDE**ICSC: 1577****PHYSICAL & CHEMICAL INFORMATION****Physical State; Appearance**

REDDISH BROWN-TO-BLACK CRYSTALS OR POWDER.

Physical dangers**Chemical dangers**

Reacts with carbon monoxide. This generates explosion hazard.

Formula: Fe₂O₃

Molecular mass: 159.7

Melting point: 1565°C

Density: 5.24 g/cm³

Solubility in water: none

EXPOSURE & HEALTH EFFECTS**Routes of exposure****Effects of short-term exposure**

May cause mechanical irritation.

Inhalation risk

A nuisance-causing concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

Effects of long-term or repeated exposure

Repeated or prolonged inhalation of dust particles may cause effects on the lungs. This may result in siderosis, a benign condition.

OCCUPATIONAL EXPOSURE LIMITSTLV: (as Fe): (respirable fraction): 5 mg/m³, as TWA; A4 (not classifiable as a human carcinogen).

MAK: carcinogen category: 3

ENVIRONMENT**NOTES**

There is a UN number associated with ferric oxide but this relates to iron oxide, spent, or iron sponge, spent obtained from coal gas purification which is spontaneously combustible.

ADDITIONAL INFORMATION**EC Classification**

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